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SIGMA International Patent Office

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT-2002-001	FOR FURTHER see (Form	Notification of Transmitt n PCT/ISA/220) as well	tal of International Search Report I as, where applicable, item 5 below.
International application No.	International filing date (day/mor	nth/year) (Earlies	t) Priority Date (day/month/year)
PCT/JP 02/05682			
Applicant	07/06/2002		30/04/2002
Аррісані		•	
FUJITA, Hideyuki			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Se ansmitted to the International Bure	arching Authority and is	s transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total ofs a copy of each prior art document		
Basis of the report			
 a. With regard to the language, the language in which it was filed, unl 	international search was carried or less otherwise indicated under this	ut on the basis of the in item.	ternational application in the
Authority (Hale 23.1(b)).	as carried out on the basis of a tra		
 b. With regard to any nucleotide an was carried out on the basis of the 	d/or amino acid sequence disclo e sequence listing :	sed in the international	application, the international search
contained in the internatio	onal application in written form.		
	ernational application in computer re	eadable form.	
	this Authority in written form.		
l <u></u>	this Authority in computer readble		
the statement that the sub- international application a	osequently furnished written sequents filed has been furnished.	nce listing does not go	beyond the disclosure in the
		dable form is identical to	o the written sequence listing has been
2. X Certain claims were four	nd unsearchable (See Box I).		
3. Unity of invention is laci	•		
4. With regard to the title,			
the text is approved as su	• • • •		
the text has been establish	hed by this Authority to read as foll	ows:	
5. With regard to the abstract,			
the text is approved as sui	bmitted by the applicant.		
the text has been establish within one month from the	hed, according to Rule 38.2(b), by date of mailing of this internationa	this Authority as it appe	ears in Box III. The applicant may,
6. The figure of the drawings to be publi	ished with the abstract is Figure N	1	1
X as suggested by the applic		, .	None of the figures.
because the applicant faile			
_	characterizes the invention.		



leternational application No. PCT/JP 02/05682

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method for manufacturing inexpensive and high-quality engine fuel, from a starting material comprising waste vegetable oils which have been conventionally wasted, is provided. There are provided; a starting-material tank (1) for storing oil/fat therein; a filtering device for filtering out solid components of the oil/fat in the starting-material tank; a first reaction vessel (2) for conducting first cracking by reacting ozone with the oil/fat; an oil/water separation device (4) for separating that water content involved in the cracking reaction, from the oil/fat; a first filtering device (8) for conducting first filtering of the oil/fat; a second reaction vessel (9) for conducting second cracking; a second filtering device (10); an adding device for adding an additive; an impurity adsorbing vessel (12) and a filtering vessel (13) for cooperatively purifying the water phase component from which the oil/fat phase has been excluded by the oil/water separation device; wherein in each of the first reaction and second reaction, there are delivered a reducing agent and polymerization inhibitor into the oil/fat.

INTERNATIONAL SEARCH REPORT

International Application No UP 02/05682

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C10G55/06 B01J19/18 B01J19/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & C10G & C10L & B01J \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX, API Data

9-12 9,10			
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 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family 			
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11/04/2003			
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INTERNATIONAL SEARCH REPORT

International Application No
P JP 02/05682

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ GB 367 848 A (LEWIS MURRAY STUART; MURRAY 1-8 STUART) 19 February 1932 (1932-02-19) page 3, line 80 -page 4, line 8 Υ US 4-476 010 A (BOUK DECEASED RAYMOND S) 1-8 9 October 1984 (1984-10-09) abstract PATENT ABSTRACTS OF JAPAN Α 1 vol. 005, no. 045 (C-048), 25 March 1981 (1981-03-25) & JP 55 167249 A (MITSUI PETROCHEM IND LTD), 26 December 1980 (1980-12-26) abstract & DATABASE WPI Section Ch, Week 198110 Derwent Publications Ltd., London, GB; Class E19, AN 1981-16367D XP002237142 & JP 55 167249 A (MITSUI PETROCHEM IND CO LTD), 26 December 1980 (1980-12-26) abstract Form PCT/ISA/210 (continuation of second sheet) (July 1992)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-8 (part)

Present claims 1, 7 relate to a process comprising a "first treatment step" and a "second treatment step", which steps comprise the introduction of a compound that is defined by reference to a desirable characteristic or property, namely:

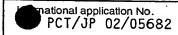
Claim 1: a polymerization inhibitor;

Claim 7: a polymerization inhibitor including a phosphorus compound.

The claims cover all possible compounds having this characteristic or property. However, the application does not provide any further support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT as to the chemical identity of said compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT), because an attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely to the claimed process comprising a "first treatment step" and a "second treatment step", which steps may or may not comprise the introduction of a polymerization inhibitor.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1-8 (part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such
	an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
- C	
3	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
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nemark (on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Info on patent family members

International Application No
PS JP 02/05682

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